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United States
Department of
Agriculture

Soil
Conservation
Service

United States
Department of
Commerce

NOAA
National
Weather
Service

Salt River
Valley
Water Users
Association

STA

Water Supply Outlook for Arizona

Federal-State-Private
Cooperative
Snow Surveys



MARCH 1, 1984

Issued by

PETER C. MYERS

CHIEF

**SOIL CONSERVATION SERVICE
WASHINGTON, D.C.**

Released by

VERNE M. BATHURST
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
PHOENIX, ARIZONA

In Cooperation with

WESLEY E. STEINER
DIRECTOR
ARIZONA DEPARTMENT OF
WATER RESOURCES

JOHN LASSEN
PRESIDENT
SALT RIVER VALLEY WATER
USERS ASSOCIATION

Report prepared by

RONALD A. JONES
SNOW SURVEY SUPERVISOR
SOIL CONSERVATION SERVICE
ROOM 3008 FEDERAL BUILDING
PHOENIX, ARIZONA 85025

COVER PHOTO -
Spring is on the way



ARIZONA STREAMFLOW IS EXPECTED TO BE
MUCH BELOW AVERAGE DURING THE PERIOD
MARCH THROUGH MAY

WATER SUPPLY

Runoff on major Arizona streams is forecast to be much below average for the March-May period. Surface water users will rely heavily on reservoir storage. Water shortages should be expected by those persons using direct stream diversion or small impoundments. The forecast for the Verde River is for 25% of average flow; for Tonto Creek, 14% of average; and for the Salt River, 27% of average. Inflow to the Salt River Project over the three-month period is forecast to be 142,000 acre feet. Low runoff is foreseen on the Gila River basin with forecasts running 37% of average on the Gila River at Solomon and 33% of average at Virden, New Mexico. The San Francisco River at Clifton is expected to produce 39% of average discharge. Inflow to San Carlos Reservoir at Calva is forecast at 24% of average. The upper Little Colorado River is forecast to run 44% of average at Greer and 16% above Lyman Reservoir. Streamflow on the Mimbres River in New Mexico is now forecast at 28% of average.

SNOW COVER

The snowpack in central Arizona and southwestern New Mexico decreased for the second straight month both in percent of average and actual water equivalent. The remaining snowpack about March 1 was 19% of average on the Verde River, 45% on the Salt River, 53% on the Gila-San Francisco drainage, and 55% on the upper Little Colorado River.

PRECIPITATION

Dry weather continued over Arizona throughout February. Most stations on the watersheds reported less than 0.5 inch of precipitation with many stations reporting zero catch. The National Weather Service outlook is for continued light precipitation.

STREAMFLOW

Streamflow declined dramatically in February in response to the dry, warm weather. The following preliminary observations illustrate the general streamflow conditions:

Stream	Observed Streamflow - February 1984	
	1000's Acre Feet	% of Average
Salt River	33	40
Verde River	18	23
Tonto Creek	2.6	9
San Francisco-Clifton	9.3	42
Gila-Virden	9.5	41
Gila-Solomon	22	42

RESERVOIR
STORAGE

Reservoir storage on March 1 was normal to above normal behind major water supply dams. A combined storage of 1,709,000 acre feet, or 85% of capacity, was reported in the six reservoirs of the Salt River Project. San Carlos Reservoir was still 98% full with 914,000 acre feet. Lake Pleasant held 129,000 acre feet, at 82% of capacity. Water was released from Painted Rock Dam, bringing the March 1 storage to 21,500 acre feet. The combined storage of Lakes Powell, Mead, Mohave, and Havasu on the Colorado River was 47,796,000 acre feet. This is 89% of capacity.

Streamflow forecasts are coordinated between Soil Conservation Service and National Weather Service. All averages are based on the 20-year period 1961-1980.

ABOUT MARCH
STREAMFLOW FORECASTS 1, 1984

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average ⁺
<u>SALT RIVER DRAINAGE</u>					
Salt near Roosevelt	90	27	Mar-May	771.8	329.7
"	36	29	March	320.8	125.6
Tonto Creek near Roosevelt	7	14	Mar-May	130.3	48.3
"	4.0	12	March	94.5	34.1
Verde River above Horseshoe	45	25	Mar-May	416.1	181.5
"	21	21	March	261.6	100.4
Total Salt River Project Streams	142	25	Mar-May	1,318.2	559.5
"	61	23	March	676.9	260.1
<u>GILA RIVER DRAINAGE</u>					
Gila River at Calva	19	24	Mar-May	370.5	79.6
Gila River near Gila	18	41	Mar-May	117.0	43.4
Gila River near Solomon	42	37	Mar-May	403.6	112.8
"	18	32	March	208.2	55.8
Gila River near Virden	18	33	Mar-May	153.8	53.9
Frisco River at Clifton	22	39	Mar-May	188.6	56.2
Frisco River at Glenwood	9	23	Mar-May	86.1	31.5
<u>LITTLE COLORADO RIVER DRAINAGE</u>					
Little Colo. River above Lyman Dam	2.0	16	Mar-June	---	12.8
Greer	3.4	44	Mar-June	---	7.8
<u>GRANITE CREEK DRAINAGE</u>					
Granite Creek	0.3	---	Mar-May	---	---
Willow Creek	0.2	---	Mar-May	---	---
<u>MIMBRES RIVER DRAINAGE</u>					
Mimbres River near Mimbres	1.0	28	Mar-May	10.2	3.5
<u>COLORADO RIVER DRAINAGE</u>					
Virgin River near Littlefield	60	98	Apr-June	252.5	61.5
Lake Mary Inflow	0.9	---	Mar-May	---	---

⁺ Based on 20-year period, 1961-80
* Average is for less than 20 years

WATER SUPPLY INVENTORY SALT RIVER VALLEY SYSTEM

IN ACRE-FEET

AVERAGE WATER SUPPLY
MARCH 1

ANTICIPATED WATER SUPPLY
MARCH 1, 1984

3,000,000

2,500,000

2,000,000

1,500,000

1,000,000

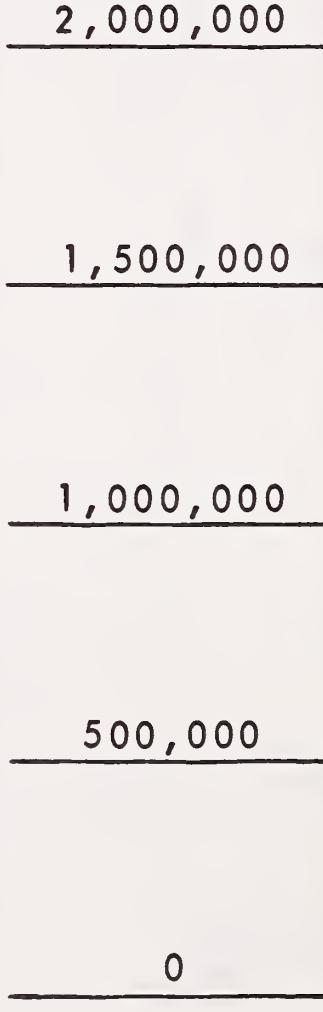
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Average
Mar-May
Runoff

Average
Summer
Runoff

Average
March 1
Reservoir
Storage



Forecast Runoff
Mar-May 1984

Average Summer
Runoff

Reservoir Storage
March 1, 1984

Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff

RESERVOIR STORAGE (Thousand Acre Feet) ABOUT MARCH 1, 1984

BASIN or STREAM	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average [†]
<u>GILA RIVER DRAINAGE</u>					
Agua Fria	Lake Pleasant	157.6	128.7	152.4	77.8
Granite	Watson Lake	4.7	4.7	4.5	3.3
Granite	Willow Creek	6.1	6.1	5.6	3.2
Gila	San Carlos	935.0	914.1	363.4	303.2
Gila	Painted Rock Dam	2,492.0	21.5	288.0	---
Salt (4)	Roosevelt, Apache Canyon & Saguaro	1,709.0	1472.6	1,514.4	1,199.5
Verde (2)	Bartlett and Horseshoe	309.6	236.1	201.0	147.2
Salt and Verde	6 Salt River Project Reservoirs	2,019.0	1708.7	1,715.4	1,346.7
<u>COLORADO RIVER DRAINAGE</u>					
Colorado	Lake Havasu	619.4	552.6	552.6	539.0
Colorado	Lake Mohave	1,810.0	1718.0	1,645.0	1,676.0
Colorado	Lake Mead	26,159.0	24,046	24,435.0	18,377.0
Colorado	Lake Powell	25,002.0	21,479	22,231.0	11,865
Little Colorado	Lyman	---	---	---	---
Little Colorado	Show Low Lake	5.1	4.4	4.9	---

[†] Based on 20-year average, 1961-80
^{*} Average is for less than 20 years of record

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
<u>ABOUT FEBRUARY 15, 1984</u>			
Gila	9	29	64
Salt	8	29	56
Verde	10	11	22
Little Colorado	4	49	73
<u>ABOUT MARCH 1, 1984</u>			
Gila	9	28	53
Salt	8	28	45
Verde	10	11	19
Little Colorado	4	37	55
-6-			

SNOW ABOUT MARCH 1, 1984

DRAINAGE BASIN and or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
<u>SALT RIVER</u>						
Baldy*	9220	2-28	18	5.1	12.6	7.6
BALDY SNOTEL	9220	3-1	--	6.4	14.7	8.3**
Beaver Head	8000	2-28	2	0.3	6.7	3.0
Canyon Creek	7500	2-28	1	0.4	4.6	4.2
Canyon Point	7600	2-28	0	0.0	6.8	5.4**
Coronado Trail	8400	2-28	0	0.0	7.0	3.2
CORONADO TRAIL SNOTEL	8400	3-1	--	0.0	5.9	3.0**
Forest Dale Alternate	6580	2-27	0	0.0	---	0.6
Ft. Apache	9160	2-28	19	4.9	12.2	8.2
Hannagan Meadows	9090	2-28	26	6.7	17.0	9.4**
HANNAGAN MEADOWS SNOTEL	8960	3-1	--	9.0	20.3	9.4E
Heber	7640	2-28	1	0.4	4.7	4.6
HEBER SNOTEL	7640	3-1	--	0.0	4.5	5.5**
Maverick Fork	9050	2-28	22	6.0	14.1	9.7
MAVERICK FORK SNOTEL	9200	3-1	--	6.6	16.9	9.8**
Nutrioso *	8500	2-28	0	0.0	3.6	2.1
Promontory Butte	7900	2-28	17	7.0	19.4	14.5**
PROMONTORY SNOTEL	7900	3-1	--	8.7	24.1	15.1**
Workman Creek	6900	2-29	T	0.1	7.4	5.8
WORKMAN CREEK SNOTEL	6900	3-1	--	0.1	--	5.6**
<u>LOWER COLORADO RIVER</u>						
Bright Angel	8400	2-28	26	7.5	15.9	12.2**
Chalender *	7100	2-28	0	0.0	4.9	3.1
Fort Valley	7350	2-28	0	0.0	3.6	2.5
Grand Canyon	7500	---	--	--	5.3	1.9
Williams Ski Run	7720	2-28	14	3.9	13.7	8.6**

† 1961-80 20-year period. (*) Adjacent drainage. (**) 1961-80 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.

SNOW ABOUT MARCH 1, 1984

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average +
GILA RIVER						
Beaver Head	8000	2-28	2	0.3	6.7	3.0
Coronado Trail	8400	2-28	0	0.0	7.0	3.2
CORONADO TRAIL SNOTEL	8400	3-1	-	0.0	5.9	3.0**
Emory Pass #2*	7800	2-27	1	0.2	4.2	1.4**
Frisco Divide	8000	3-1	2	0.5	4.8	2.4
FRISCO DIVIDE SNOTEL	8000	3-1	-	0.6	6.3	2.2**
Hannagan Meadows *	9090	2-28	26	6.7	17.0	9.4**
HANNAGAN MEADOWS SNOTEL	8960	3-1	--	9.0	20.3	9.4E
Hummingbird (A)	10550	2-28	27	8.1	25.8	14.7**
LOOKOUT MOUNTAIN SNOTEL	8150	3-1	--	0.0	4.3	---
McKnight Cabin * (A)	9300	2-23	14	4.4	10.8	4.1**
Mogollon	7000	Not scheduled			---	1.0
Nutrioso	8500	2-28	0	0.0	3.6	2.1
Redstone Trail	8600	Not scheduled			---	7.4
SIGNAL PEAK SNOTEL	8360	3-1	--	3.8	---	---
Silver Creek Divide	9070	Not scheduled			---	10.6**
SILVER CREEK SNOTEL	9070	3-1	--	8.4	17.9	10.6**
State Line	8000	3-1	1	0.5	7.0	2.5
Whitewater (A)	10750	2-28	51	12.8	28.6	18.5**
VERDE RIVER						
Baker Butte	7330	2-28	0	0.0	10.6	7.4**
BAKER BUTTE SNOTEL	7330	3-1	--	0.0	13.6	6.9**
Baker Butte #2	7700	2-28	16	5.8	20.6	13.8**
Chalender *	7100	2-28	0	0.0	4.9	3.1
Copper Basin Divide	6720	2-28	0	0.0	1.9	1.4**
Fort Valley	7350	2-28	0	0.0	3.6	2.5
FRY SNOTEL	7200	3-1	--	0.0	---	6.2**
Gaddes Canyon	7600	2-28	0	0.0	12.3	5.7
Happy Jack	7630	2-28	0	0.0	9.8	4.3
Mingus Mountain	7100	2-28	0	0.0	1.1	0.8
Mormon Lake *	7350	2-27	T	0.3	8.7	4.8
Mormon Mountain	7500	2-27	2	1.9	12.8	6.4
MORMON MOUNTAIN SNOTEL	7500	3-1	--	0.5	12.1	7.0
Mormon Mtn. Summit #2	8470	2-27	30	10.0	---	---
Newman Park	6750	2-27	0	0.0	1.4	2.3**
Snow Bowl #1 Alternate	9920	2-28	23	6.8	15.7	10.4
Snow Bowl #2	11000	2-28	34	10.1	21.2	16.1**
SUGAR LOAF SNOTEL	6120	3-1	--	0.0	0.0	---
White Horse Lake Jct.	7180	2-28	0	0.0	7.0	4.0**
WHITE HORSE LAKE SNOTEL	7180	3-1	--	0.0	10.2	5.4**

+ 1961-80 20-year period. (*) Adjacent drainage. (**) 1961-80 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.

SNOW ABOUT MARCH 1, 1984

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average +
LITTLE COLORADO RIVER						
Baldy	9220	2-28	18	5.1	12.6	7.6
BALDY SNOTEL	9220	3-1	--	6.4	14.7	8.3**
Canyon Creek	7500	2-28	1	0.4	4.6	4.2
Canyon Point	7600	2-28	0	0.0	6.8	5.4**
Cheese Springs	8600	2-27	14	3.2	7.4	6.3**
Forest Dale Alternate	6580	2-27	0	0.0	---	0.6
Ft. Apache	9160	2-28	19	4.9	12.2	8.2
Fort Valley	7350	2-28	0	0.0	3.6	2.5
Happy Jack	7630	2-28	0	0.0	9.8	4.3
Heber	7640	2-28	1	0.4	4.7	4.6
HEBER SNOTEL	7640	3-1	--	0.0	4.5	5.5**
Lake Mary	6970	2-27	0	0.0	6.7	2.3**
Mormon Lake	7350	2-27	T	0.3	8.7	4.8
Mormon Mountain	7500	2-27	2	1.9	12.8	6.4
MORMON MOUNTAIN SNOTEL	7500	3-1	--	0.5	12.1	7.1
Mormon Mountain Summit #2	8470	2-27	30	10.0	---	---
Nutrioso *	8500	2-28	0	0.0	3.6	2.1
Promontory Butte	7900	2-28	17	7.0	19.4	14.5**
PROMONTORY SNOTEL	7900	3-1	--	8.7	24.1	15.1**
Snow Bowl #1 Alternate	9920	2-28	23	6.8	15.7	10.4
Snow Bowl #2	11000	2-28	34	10.1	21.2	16.1**

+ 1961-80 20-year period. (*) Adjacent drainage. **) 1961-80 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.

SNOW ABOUT FEBRUARY 15, 1984

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	Last Year
<u>SALT RIVER</u>						
Baldy *	9220	2-15	19	5.6	12.9	6.6
BALDY SNOTEL	9220	2-15	--	5.4	14.6	7.4**
Beaver Head	8000	2-15	2	0.6	7.8	3.3
Canyon Creek	7500	2-13	2	0.8	7.0	4.0
Canyon Point	7600	2-13	2	0.8	8.6	5.1**
Coronado Trail	8400	2-15	1	0.2	8.3	2.9
CORONADO TRAIL SNOTEL	8400	2-15	--	0.0	7.4	3.0**
Forest Dale Alternate	6580	2-14	0	0.0	---	1.1
Ft. Apache	9160	2-15	22	5.5	12.2	6.9
Hannagan Meadows	9090	2-15	26	7.5	17.4	8.5**
HANNAGAN MEADOWS SNOTEL	8960	2-15	--	9.3	19.8	8.5E
Heber	7640	2-13	3	1.1	6.8	4.3
HEBER SNOTEL	7640	2-15	--	0.0	5.1	5.1**
Maverick Fork	9050	Not scheduled			---	8.9
MAVERICK FORK SNOTEL	9200	2-15	--	7.3	17.2	8.9**
Nutrioso *	8500	2-15	1	0.3	5.6	2.1
Promontory Butte	7900	2-13	19	7.0	20.2	12.8**
PROMONTORY SNOTEL	7900	2-15	--	8.7	---	13.0**
Workman Creek	6900	2-15	3	0.6	7.8	5.9
WORKMAN CREEK SNOTEL	6900	No report			---	6.2**
<u>LOWER COLORADO RIVER</u>						
Bright Angel	8400	No Survey			13.6	---
Chalender *	7100	2-15	T	0.1	4.7	3.1
Fort Valley	7350	2-15	0	0.0	5.3	2.5
Grand Canyon	7500	2-15	2	0.3	4.5	2.1
Williams Ski Run	7720	2-15	12	4.3	13.2	7.5**

+ 1961-80 20-year period. (*) Adjacent drainage. (**) 1961-80 Adjusted Average. (A) Aerial observation: Water content estimated. Snotel data is edited. E - estimate.

SNOW ABOUT FEBRUARY 15, 1984

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average +
<u>GILA RIVER</u>						
Beaver Head	8000	2-15	2	0.6	7.8	3.3
Coronado Trail	8400	2-15	1	0.2	8.3	2.9
CORONADO TRAIL SNOTEL	8400	2-15	--	0.0	7.4	3.0**
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Frisco Divide	8000	2-14	4	0.9	6.2	2.4
FRISCO DIVIDE SNOTEL	8000	2-14	--	3.0	8.6	2.0**
Hannagan Meadows *	9090	2-15	26	7.5	17.4	8.5**
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Hummingbird (A)	10550	Not scheduled			---	12.6**
LOOKOUT MOUNTAIN SNOTEL	8150	No report			8.0	---
McKnight Cabin * (A)	9300	Not scheduled			---	3.1**
Mogollon	7000	2-14	0	0.0	---	1.4
Nutrioso	8500	2-15	1	0.3	5.6	2.1
Redstone Trail	8600	2-14	16	5.4	---	6.9
SIGNAL PEAK SNOTEL	8360	2-15	--	4.3	12.6	---
Silver Creek Divide	9070	2-14	25	8.0	---	9.7**
SILVER CREEK SNOTEL	9070	2-14	--	8.4	17.4	9.7**
State Line	8000	2-14	3	0.9	7.1	2.6
Whitewater (A)	10750	Not scheduled			---	15.1**
<u>VERDE RIVER</u>						
Baker Butte	7330	2-14	17	6.1	12.5	7.3**
BAKER BUTTE SNOTEL	7330	2-15	--	0.0	15.7	6.8**
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WHITE HORSE LAKE SNOTEL	7180	2-15	--	0.0	11.8	5.1**

+ 1961-80 20-year period. (*) Adjacent drainage. (**) 1961-80 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited. E = Estimate.

SNOW ABOUT FEBRUARY 15, 1984

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
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<u>LITTLE COLORADO RIVER</u>						
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BALDY SNOTEL	9220	2-15	--	5.4	14.6	7.4**
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Forest Dale Alternate	6580	2-14	0	0.0	---	1.1
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Fort Valley	7350	2-15	0	0.0	5.3	2.5
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Promontory Butte	7900	2-13	19	7.0	20.2	12.8**
PROMONTORY SNOTEL	7900	2-15	--	8.7	---	13.0**
Snow Bowl #1 Alternate	9920	2-15	25	7.0	14.1	9.3
Snow Bowl #2	11000	2-15	34	11.0	21.3	14.5**

† 1961-80 20-year period. (*) Adjacent drainage. **) 1961-80 Adjusted Average. (A) Aerial observation: Water content estimated. Snotel data is edited.

BASIN SNOW COVER
GOES WEST SATELLITE

FEBRUARY 6, 1984



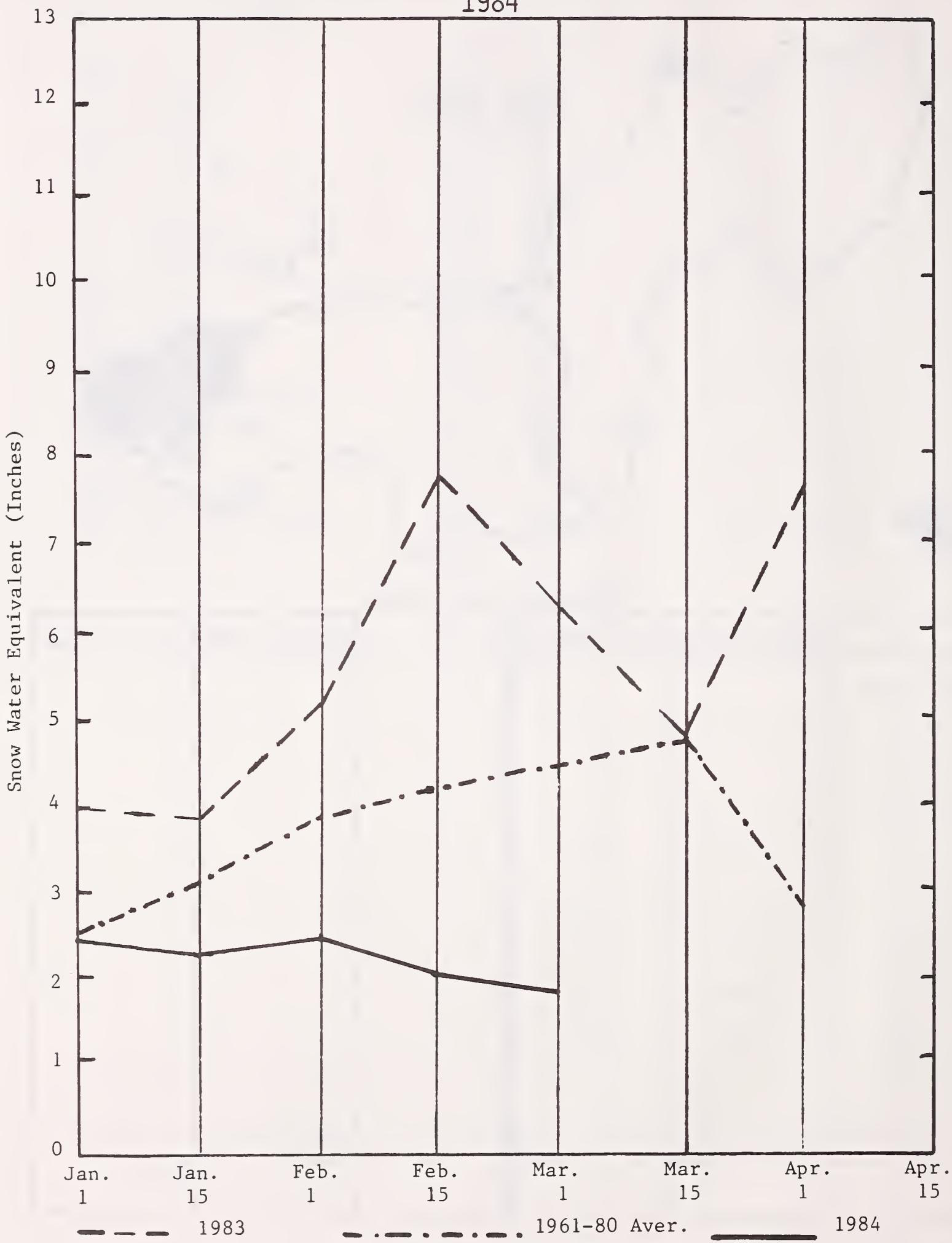
PREVIOUS SNOW COVER

	VERDE RIVER	SALT RIVER		VERDE RIVER	SALT RIVER
Dec. 1983					
30	13%	30%			
Jan. 1984					
4	7%	18%			
9	0.4%	14%			
18	17%	21%			
20	16%	20%			
24	14%	18%			

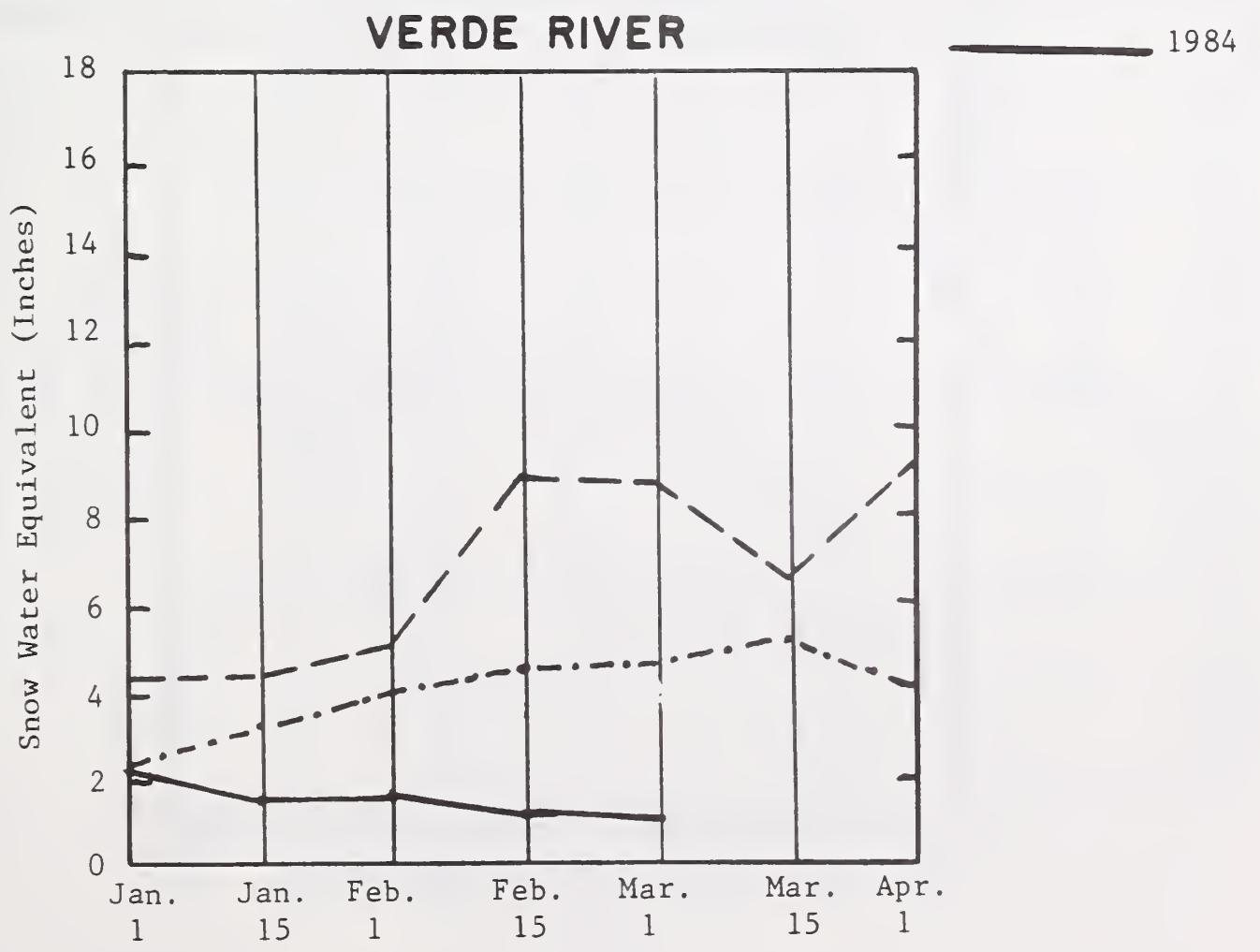
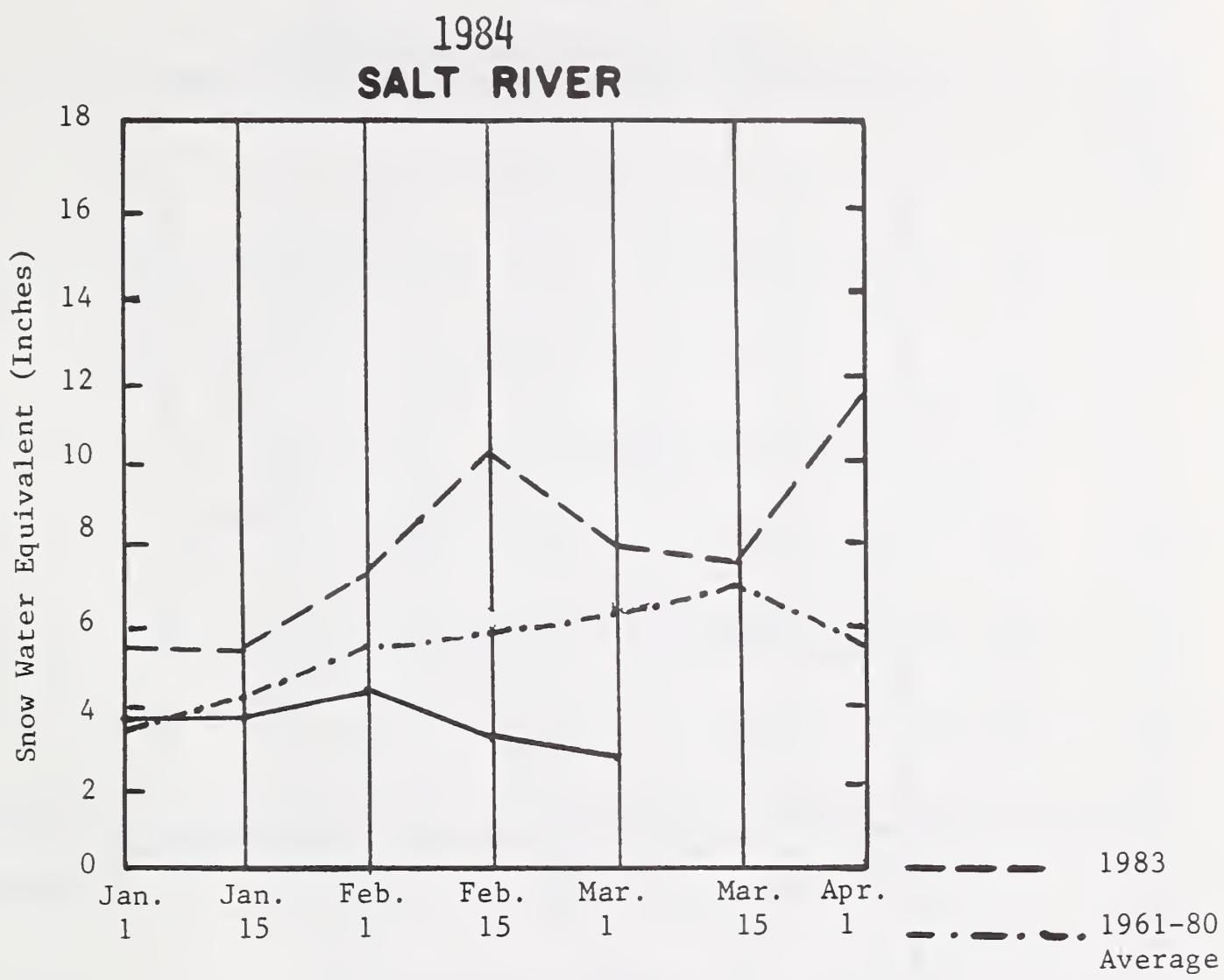
ARIZONA

AVERAGE SNOW COVER

1984



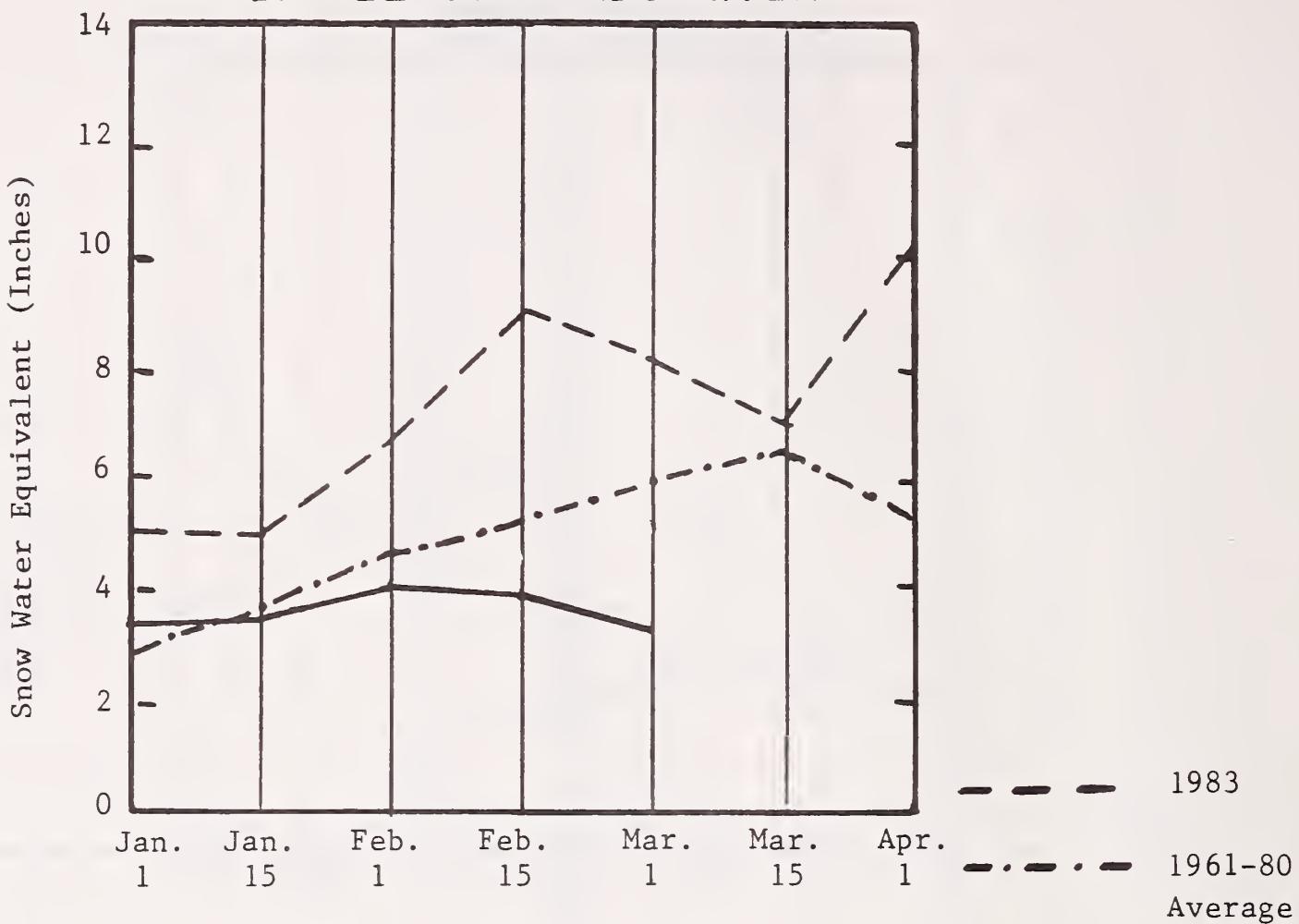
WATERSHED SNOW COVER



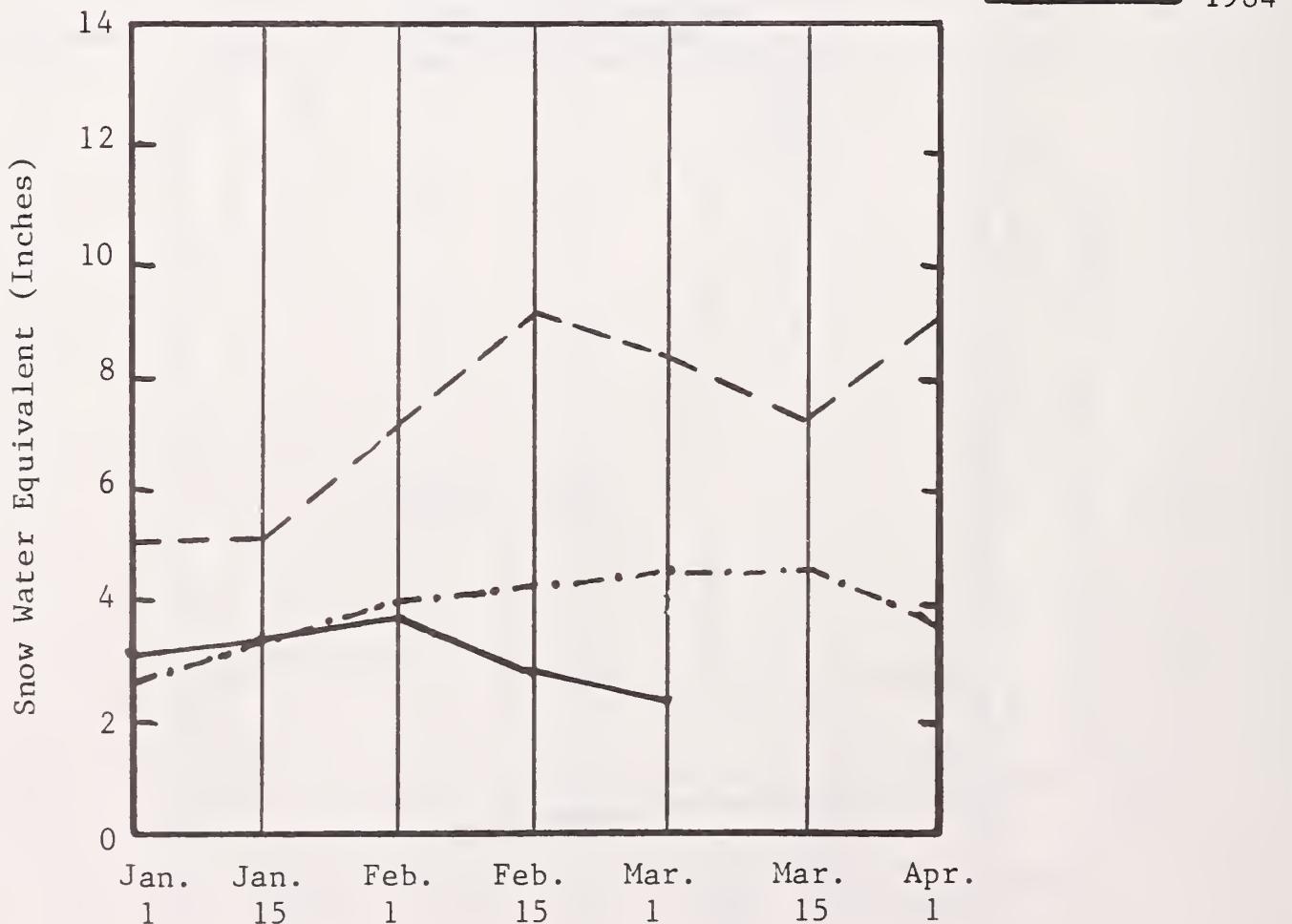
WATERSHED SNOW COVER

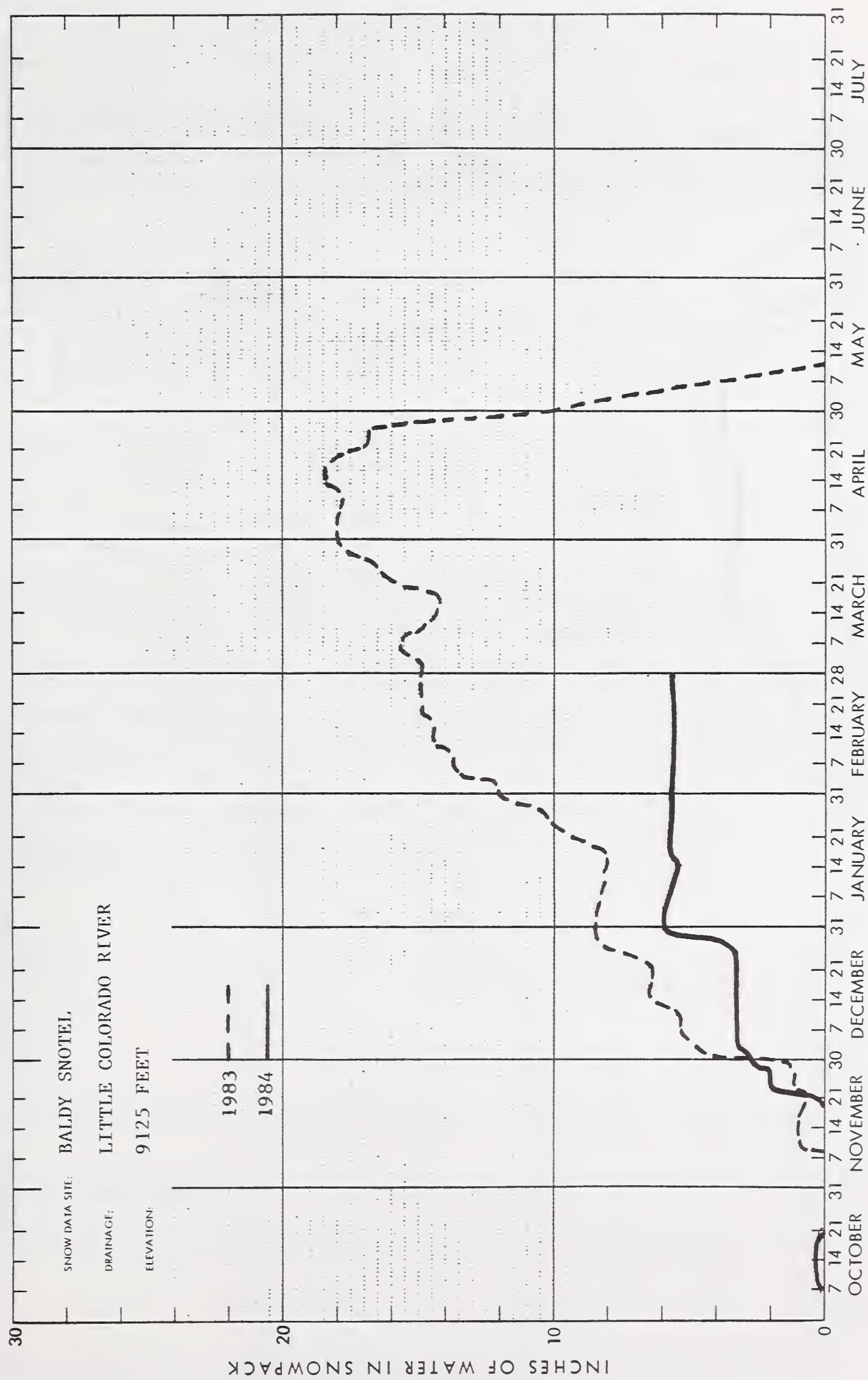
1984

LITTLE COLORADO RIVER

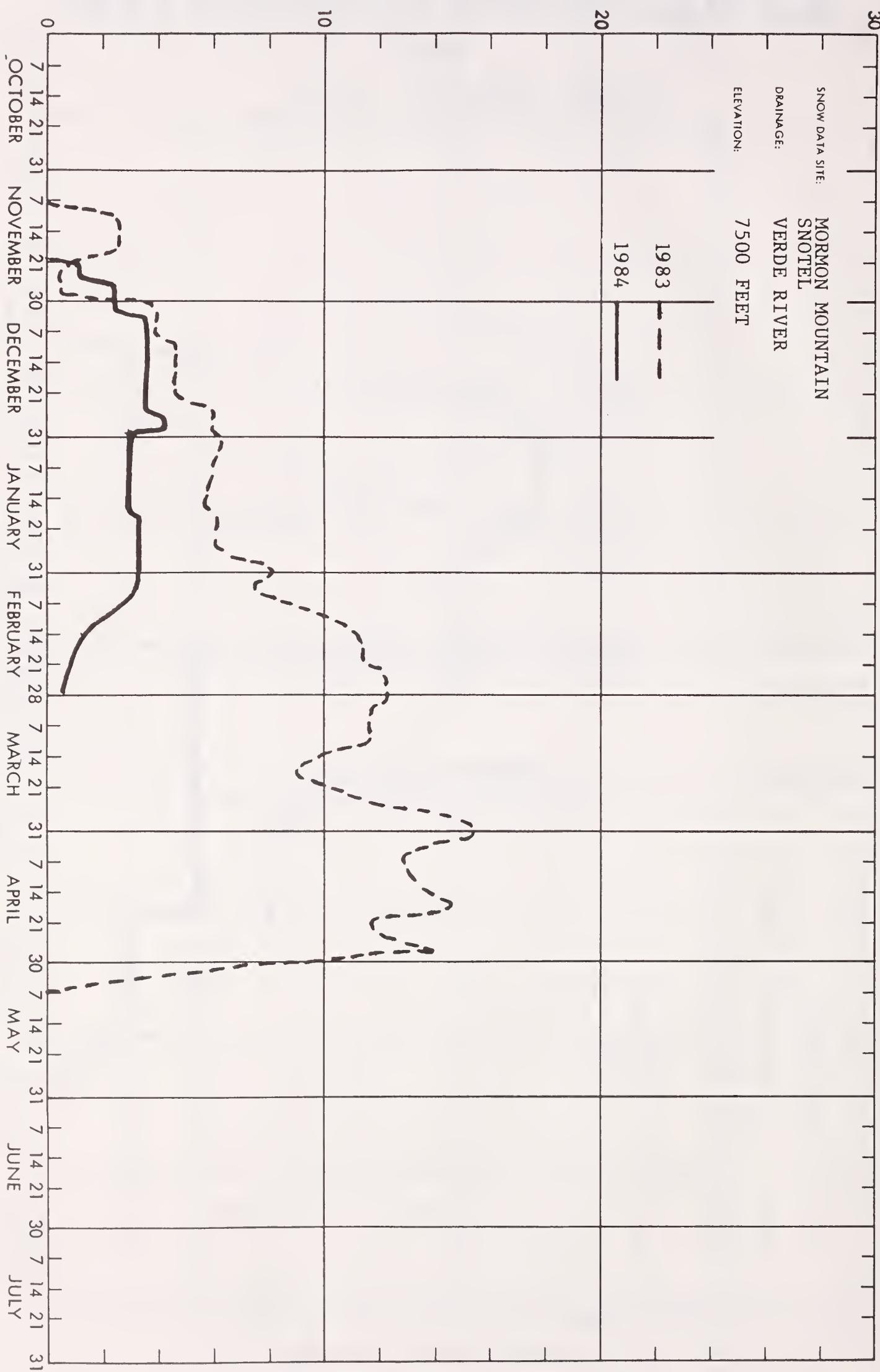


GILA RIVER





INCHES OF WATER IN SNOWPACK



PRECIPITATION (Inches) ABOUT MARCH 1, 1984 (SNOWMELT SITES)

Snotel data preliminary

14

13

12

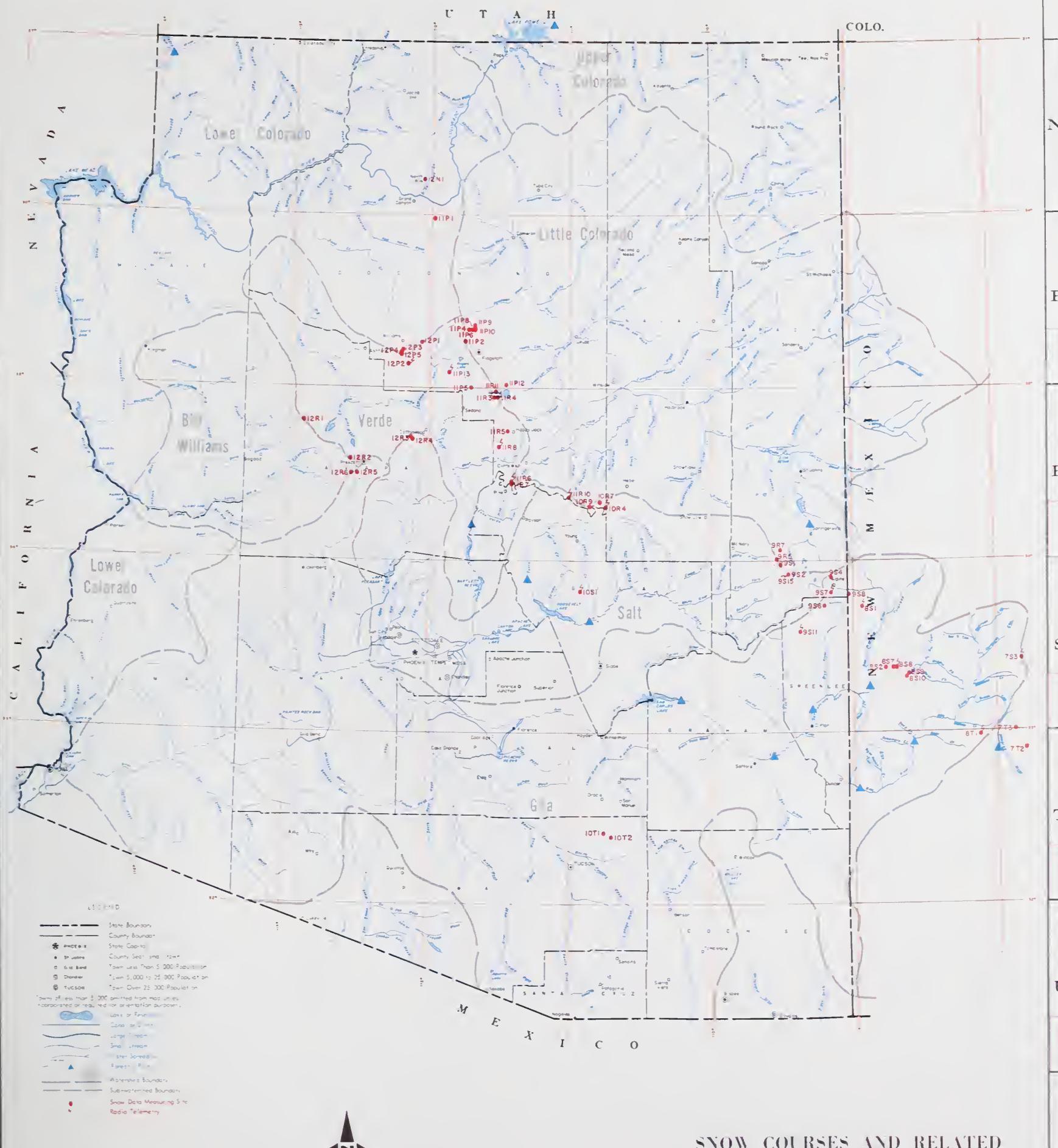
11

1C

9

8

7



SNOW COURSES AND RELATED DATA MEASURING SITES

ARIZONA

1984

USGS National Atlas 1:1,000,000 Albers
Equal-Area projection 1957 used as source
for base map and adapted for SCS use

INDEX TO SNOW COURSES

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	DRAINAGE	OBSERVER	RECORD BEGAN
11P10A	Agassiz	32	23N	7E	11200	Little Colorado	SCS-CF*	1968
11R6PSPRT	Baker Butte	4	12N	9E	7300	Verde	SCS	1966
11R7	Baker Butte #2	9	12N	9E	7700	Verde	SCS	1971
9S1APSPRT	Baldy	28	7N	27E	9125	Little Colorado	SCS	1950
9S15	Baldy #2	12	6N	26E	9750	Little Colorado	SCS	1963
10T1	Bear Wallow	6	12S	16E	8100	Gila	FS	1948
9S6	Beaver Head	13	4N	30E	8000	San Francisco	FS	1938
12P5	Bill William Intermediate	17	21N	2E	8550	Cataract	FS	1967
12P4	Bill Williams Summit	17	21N	2E	8950	Verde	FS	1967
12N1	Bright Angel	34	33N	3E	8400	Bright Angel Creek	NPS	1947
12R1	Camp Wood	3	16N	6W	5700	Verde	FS	1946
10R7	Canyon Creek #2	18	11N	15E	7500	Little Colorado	SCS	1958
10R9P	Canyon Point	28	11N	14E	7600	Salt	SCS	1967
12P1	Chalender	27	22N	3E	7100	Verde	FS	1947
9R7	Cheese Springs	28	8N	27E	8600	Little Colorado	SCS	1969
12R6P	Copper Basin Divide	23	13N	3W	6720	Verde	SCS	1963
9S7PSPRT	Coronado Trail	26	5N	30E	8000	San Francisco	FS	1938
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres	SCS	1967
11P13PSPRT	Fry	35	20N	5E	7220	Verde	SCS	1978
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado	SCS	1951
11P2P	Ft. Valley	22	22N	6E	7350	Little Colorado	FS	1947
8S1PSPRT	Frisco Divide	31	6S	20W**	8000	San Francisco	FS	1938
12R4	Gaddes Canyon	11	15N	2E	7600	Verde	SCS	1954
11P1	Grand Canyon	21	30N	4E	7500	Hance Creek	NPS	1947
9S11PSPRT	Hannagan Meadows	19	3N	29E	9090	San Francisco	FS	1964
11R5P	Happy Jack	30	16N	9E	7630	Verde	FS	1951
10R4PSPRT	Heber	28	11N	15E	7600	Little Colorado	SCS	1950
8S9A	Hummingbird	19	11S	17W**	10550	Gila	SCS	1964
11P9P	Inner Basin #1	28	23N	7E	10000	Little Colorado	SCS-CF*	1967
11P8P	Inner Basin #2	28	23N	7E	9750	Little Colorado	SCS	1967
12R2	Iron Springs	22	14N	3W	6200	Little Colorado	SCS	1946
11P12	Lake Mary	21	19N	9E	6930	Little Colorado	SCS	1975
7S3PSPRT	Lookout Mountain	1	10S	10W	8500	Gila	SCS	1978
9S2APSPRT	Maverick Fork	13	6N	27E	9150	Salt	SCS	1950
7T3A	McKnight Cabin	10	15S	10W**	9300	Mimbres	SCS	1967
12R3	Mingus Mountain	3	15N	2E	7100	Verde	SCS	1947
8S2	Mogollon	2	11S	19W**	7000	San Francisco	SCS	1953
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado	SCS	1947
11R3APSPRT	Mormon Mountain	14	18N	8E	7500	Verde	SCS	1950
11R11	Mormon Mountain Summit #2	2	18N	8E	8470	Little Colorado	SCS	1975
11P5	Newman Park	25	19N	6E	6750	Verde	SCS	1963
9S4	Nutrioso	23	6N	30E	8500	San Francisco	FS	1938
11R10PSPRT	Promontory Butte	5	11N	13E	7930	Little Colorado	SCS	1973
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco	SCS	1961
10T2	Rose Canyon	15	12S	16E	7300	Gila	FS	1948
8T1PSPRT	Signal Peak	13	16S	13W	8360	Gila	SCS	1977
8S8PSPRT	Silver Creek Divide	4	11S	18W**	9000	San Francisco	SCS	1964
11P4	Snow Bowl #1	36	23N	6E	10260	Verde	FS	1961
11P6	Snow Bowl #2	31	23N	7E	11000	Verde	FS	1965
9S8	State Line	6	6S	21W**	8000	San Francisco	FS	1938
11R8PSPRT	Sugarloaf	8	8E	14N	6120	Verde	SCS	1978
12P2PSPRT	White Horse Lake Jct.	2	20N	2E	7180	Verde	FS	1967
12R5	White Spar	19	13N	2W	6000	Verde	SCS	1963
8S10A	Whitewater	19	11S	17W**	10750	Gila	SCS	1964
12P3	Williams Ski Run	9	21N	2E	7720	Cataract	FS	1967
10S1PSPRT	Workman Creek	33	6N	14E	6900	Salt	FS	1952

A Aerial Snow Depth Marker

SP Snow Pressure Pillow

P Precipitation Storage Gage

T Temperature

R Radio Telemetry (SNOTEL)

** NM Principal Meridian

* City of Flagstaff

***The Following Organizations Cooperate
in the Arizona Snow Survey Work***

FEDERAL

Department of Agriculture
Soil Conservation Service
Forest Service
 Apache-Sitgreaves Forest
 Coconino Forest
 Coronado Forest
 Gila Forest
 Kaibab Forest
 Prescott Forest
 Rocky Mountain Forest and Range
 Experiment Station
 Tonto Forest
Department of Commerce
 NOAA, National Weather Service
Department of Interior
 Bureau of Reclamation
 Region III
 Geological Survey
 Arizona District
 New Mexico District
 Bureau of Indian Affairs
 San Carlos Irrigation Project
 National Park Service
 Grand Canyon National Park
Gila Water Commissioner
 Safford, Arizona

STATE

Arizona Game and Fish Department
Arizona State Parks Board
Arizona Department of Water Resources
University of Arizona
 Arizona Agricultural Experiment Station
 Water Resource Research Center
 Department of Watershed Management
Arizona State Climatologist

MUNICIPAL

City of Flagstaff
Salt River Valley Water Users' Association
 Phoenix, Arizona
San Carlos Irrigation and Drainage District
 Coolidge, Arizona
Maricopa County Municipal Water Conservation District
 Peoria, Arizona

PRIVATE

Southwest Forest Industries, Inc.
 Phoenix, Arizona

Other organizations and individuals furnish valuable information
for the snow survey reports. Their cooperation is gratefully
acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
FEDERAL BUILDING ROOM 3008
230 NORTH FIRST AVENUE
PHOENIX, ARIZONA 85025

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*“The Conservation of Water begins
with the Snow Survey”*